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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/076,446	02/19/2002	Makito Mnkae	Q68588	9879
75	90 12/05/2003		EXAM	INER

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KNABLE, GEOFFREY L ART UNIT PAPER NUMBER

1733

DATE MAILED: 12/05/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Summary	10/076,446	MUKAE, MAKITO
Omce Action Gummary	Examiner	Art Unit
The MAILING DATE of this communication	Geoffrey L. Knable	1733
The MAILING DATE of this communication Period for Reply	appears on the cover sheet	with the correspondence address
A SHORTENED STATUTORY PERIOD FOR RI THE MAILING DATE OF THIS COMMUNICATIO Extensions of time may be available under the provisions of 37 CF after SIX (5) MONTHS from the mailing date of this communicatio If the period for reply specified above is less than thirty (30) days, If NO period for reply is specified above, the maximum statutory pr Failure to reply with, by so Any reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b). Status	ON. FR 1.136(a). In no event, however, may n. a reply within the statutory minimum of the red will expire SIX (6) Mostatute, cause the application to become.	a reply be timely filed nirty (30) days will be considered timely. NTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).
1) Responsive to communication(s) filed on		
2a)☐ This action is FINAL . 2b)⊠1	This action is non-final.	
Since this application is in condition for all closed in accordance with the practice uncondition.		
Disposition of Claims	, ., ., ., .,	
4) Claim(s) 1-15 is/are pending in the applica 4a) Of the above claim(s) is/are with 5) Claim(s) is/are allowed. 6) Claim(s) 1-15 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction as	ndrawn from consideration.	
application Papers		
9) The specification is objected to by the Exar	miner.	
10) The drawing(s) filed on is/are: a)	accepted or b)☐ objected to	by the Examiner.
Applicant may not request that any objection to	the drawing(s) be held in abeya	ance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the co		-, , , , , , , , , , , , , , , , , , ,
11)☐ The oath or declaration is objected to by th	e Examiner. Note the attach	ed Office Action or form PTO-152.
riority under 35 U.S.C. §§ 119 and 120		
Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International Bu * See the attached detailed Office action for a 13. Acknowledgment is made of a claim for dom since a specific reference was included in the 37 CFR 1.78. a) The translation of the foreign language 14. Acknowledgment is made of a claim for dom reference was included in the first sentence of the service of the serv	nents have been received. nents have been received in priority documents have bee reau (PCT Rule 17.2(a)). I list of the certified copies no nestic priority under 35 U.S.C e first sentence of the specific provisional application has nestic priority under 35 U.S.C	Application No
ttachment(s)		
) Notice of References Cited (PTO-892)		Summary (PTO-413) Paper No(s)
)		Informal Patent Application (PTO-152)
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 Claims 1-15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, lines 2+, the phrase beginning with "when..." is confusing as it is not clear how these steps fit into the overall method and particularly the steps referred to later in the claim, this rendering the scope of the claim indefinite and confusing. It is suggested that the claim be recast to more positively define the claimed method steps to avoid this ambiguity. Further, in line 4, the reference to "to shape a green tire" is not understood. This would seem to define that the turn-up step is what is being referred to here as "shaping" a green tire - is this what is intended or is this intended to refer to additional carcass shaping operations as described in the specification - clarification is required. Further, the use of different terms to refer to seemingly the same or very similar steps adds additional confusion - note particularly the reference to "wound", "turnup" and "wrap" to apparently refer to the same or at least very similar steps or portions. Clarification is required of the difference among these terms and/or common terminology should be adopted to avoid potential confusion.

Claim 1, lines 4-6 are indefinite and confusing for several reasons. First, it is not clear what the reference to "previously folded" is in reference to - i.e. previous to what? Also, it is not clear how this folding step relates to the apparent subsequent step of shaping into a cylinder, and particularly whether the "previous" is in reference to this step.

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Claim 1, lines 6-8 are indefinite and confusing. In particular, reference is made to "both resulting hook-shaped wrap portions" but there is no clear indication as to what step "results" in these portions. Although it seems clear that the intent is that the "previously folded" end portions do in fact form these hook-shaped wrap portions, this should be made clearer in the claim language to avoid this ambiguity. Further, consistency of terminology should be adopted to avoid ambiguity - note for example that claim 1, line 2 refers to an end portion that is "wound" while line 7 refers to "wrap" for apparently the same portion. Also, in these lines, the reference to "at a fall-down posture..." seems arguably confusing. It might be more precise to redefine this as for example --with the stiffener in a fall-down posture--.

Similarly, in lines 8+ of claim 1, it seems that "of the fall-down posture" should be for example --in the fall-down posture--.

Claim 5 is indefinite as it refers to the stiffener being fallen down "after the bead core is locked" - however, there is no previously defined step of "locking" the bead core. As such, it is not clear whether locking the bead core is a positive step of the claimed method and further, without previously defining the locking, it is not clear how the claim 5 steps fit into the claimed method. Clarification is required. Claims 8 and 9 present an analogous ambiguity in referring to "locking". Further, claims 8 and 9 present a similar ambiguity in their reference to the "shaping" of the carcass, their being no clear prior reference to such a shaping step (other than the ambiguous reference to "shape" in line 4 of claim 1).

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In claim 7, no antecedent has been established for "the falling deformation".

Further, the rest of the claim is grammatically awkward and thereby confusing.

It is not clear how claim 12 further limits what is already defined in claim 2. If it does or is intended to further limit, then clarification is required as to how it does.

 Claims 1-15 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.

Among the closest prior art, Tsukagoshi et al. (US 6,530,411) discloses a method of building a tire in which the carcass turn-up end is positioned between the bead core and the stiffener/filler and which further include the formation of hook shaped wrap portions in the ends of the carcass ply within which the bead cores are positioned - note esp. figs. 20-29. This patent however does not teach or render obvious additionally setting of the bead cores with an attached stiffener in a fall-down posture in these wrap portions followed by standing the stiffeners up on an outer peripheral side of the wrap portion as claimed.

WO 99/48708 (cited by applicant) is another example of a known tire having the bead turn-up positioned between the bead core and the stiffener/filler but does not otherwise suggest a method as claimed.

Winstanley et al. (US 3,654,007) and Stalter et al. (US 4,683,021 - note esp. fig. 3) are exemplary of the known application of a bead/filler on a cylindrical tire carcass with the filler in a "fall-down posture". These references however do not teach or render obvious preforming hook-shaped wrap portions on the carcass or setting the beads with

attached stiffener/filler, which stiffener/filler will be stood up on an outer peripheral side of these wrap portions as claimed.

Kawaguchi et al. (US 5,294,275) discloses attaching a bead filler to a bead core in which the filler is raised from a "fall down" posture to a stood up posture but this is only described in the context of forming a bead/filler assembly and thus would not teach or render obvious a method in which the stood up bead filler is stood up on an outer peripheral surface of carcass wrap portions as claimed.

None of the closest prior art, then, whether taken singly or in combination, would teach or render obvious a method as claimed.

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Geoffrey L. Knable whose telephone number is 703-308-2062 until 12/18/2003; 571-272-1220 thereafter. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Crispino can be reached on 703-308-3853. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0651.

Geoffrey L. Knable Primary Examiner

Art Ur G. Knable

November 26, 2003